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1 Wireless internet access using IS-2000 third generation system: a performance and capacity study

Zbigniew Dziong, Farooq Khan, Kamesh Medepalli, Sanjiv Nanda

July 2002 **Wireless Networks**, Volume 8 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(534.70 KB) Additional Information: full citation, abstract, references, index terms

The Internet has been growing tremendously in the recent years and applications like web browsing are becoming increasingly popular. In a collective effort to provide seamless access to the Internet, wireless equipment manufacturers and service providers are developing 3G wireless systems that efficiently support current and future Internet applications. In this paper, we evaluate the performance and capacity of a 3G wireless data system based on IS-2000 standard. We consider web browsing as the ...

Keywords: ARQ, HTTP, RLP, TCP, capacity, mobility, multiple users, wireless internet

2 Handover in a micro-cell packet switched mobile network

Reuven Cohen, Baiju V. Patel, Adrian Segall

March 1996 **Wireless Networks**, Volume 2 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper proposes a distributed handover protocol for a micro-cell packet switched mobile network. In such a network, users move from one cell to another very often, and each change of location may result in misrouted and lost packets. The purpose of the new protocol is to minimize these consequences of location changes: as long as a mobile moves from one cell to another but stays in the same region, the protocol avoids loss of packets and preserves order of transmission. Thus it increase ...

3 On admission control and scheduling of multimedia burst data for CDMA systems

Yu-Kwong Kwok, Vincent K. N. Lau

September 2002 **Wireless Networks**, Volume 8 Issue 5

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